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81 On the equivalence of recursive and nonrecursive datalog programs

◆ Surajit Chaudhuri, Moshe Y. Vardi
July   PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART
1992   symposium on Principles of database systems
Publisher: ACM
Full text available: 📄 pdf(980.01   Additional Information: full citation, abstract, references, cited by,
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Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation Count: 25

We study the problem of determining whether a given recursive Datalog program is
equivalent to a given nonrecursive Datalog program. We prove triply exponential
upper and lower time bounds.

82 Rule Ordering in Bottom-Up Fixpoint Evaluation of Logic Programs

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan
August   VLDB '90: Proceedings of the 16th International Conference on Very Large
1990   Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1

83 Expressiveness of restricted recursive queries

F. Afrati, S. S. Cosmadakis
February   STOC '89: Proceedings of the twenty-first annual ACM symposium on
1989   Theory of computing
Publisher: ACM

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 20, Citation Count: 14

We study the effect of various syntactic restrictions on the expressive power of
database logic programs. We find natural examples of programs which require
recursively defined predicates of arbitrarily large width, require ...

84 Index nesting – an efficient approach to indexing in object-oriented databases

Beng Chin Ooi, Jiawei Han, Hongjun Lu, Kian Lee Tan
August   The VLDB Journal — The International Journal on Very Large Data
1996   Bases, Volume 5 Issue 3
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(455.77 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 38, Citation Count: 2

In object-oriented database systems where the concept of the superclass-subclass is
supported, an instance of a subclass is also an instance of its superclass.
Consequently, the access scope of a query against a class in general includes the
access scope ...

Keywords: Indexing structures, OODB, Query retrieval

85 An analysis of magic sets and related optimization strategies for logic queries

Seppo Sippu, Eljas Soisalon-Soininen
November   Journal of the ACM (JACM), Volume 43 Issue 6
1996
Publisher: ACM

Full text available: pdf(672.38 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 93, Citation Count: 2

We analyze the optimization effect of the "magic sets" rewriting technique for datalog queries and present some supplementary or alternative techniques that avoid many shortcomings of the basic technique. Given a magic sets rewritten query, ...

Keywords: datalog, envelopes, logic query, magic sets

86 Evaluation of database recursive logic programs as recurrent function series

Georges Gardarin, Christophe de Maindreville
June   SIGMOD '86: Proceedings of the 1986 ACM SIGMOD international conference
1986   on Management of data
Publisher: ACM

Full text available: pdf(882.17 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 18, Citation Count: 10

The authors introduce a new method to compile queries referencing recursively defined predicates. This method is based on an interpretation of the query and the relations as functions which map one column of a relation to another column. It is shown ...

87 Decidable optimization problems for database logic programs

Stavros Cosmadakis, Haim Gaifman, Paris Kanellakis, Moshe Vardi
January   STOC '88: Proceedings of the twentieth annual ACM symposium on Theory
1988   of computing
Publisher: ACM

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 17, Citation Count: 30

Datalog is the language of logic programs without function symbols. It is used as a database query language. If it is possible to eliminate recursion from a Datalog program &Pgr;, then &Pgr; is said to be bounded. It ...

88 Fixed-point semantics and the representation of algorithms on large data

Michel de Rougemont

August   VLDB '88: Proceedings of the 14th International Conference on Very Large
1988   Data Bases

Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

89 An experimental performance study of a pipelined recursive query processing strategy

J. Shao, D. A. Bell, M. E. C. Hull

July   DPDS '90: Proceedings of the second international symposium on Databases in
1990   parallel and distributed systems

Publisher: ACM

Full text available: pdf(1.21   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 14,   Citation Count: 2

> In [16] a pipelined strategy is presented for processing recursive queries in
> deductive database systems. As a follow-up, this paper studies the run-time
> performance of the proposed strategy. The algorithm, introduced informally by
> examples in this paper, ...

90 Efficient Main Memory Data Management Using the DBGraph Storage Model

Philippe Pucheral, Jean-Marc Thévenin, Patrick Valduriez

August   VLDB '90: Proceedings of the 16th International Conference on Very Large
1990   Data Bases

Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 3

91 Direct transitive closure algorithms: design and performance evaluation

Rakesh Agrawal, Shaul Dar, H. V. Jagadish
September   ACM Transactions on Database Systems (TODS),   Volume 15 Issue
1990   3
Publisher: ACM

Full text available: pdf(2.58   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 77,   Citation Count: 25

We present new algorithms for computing transitive closure of large database
relations. Unlike iterative algorithms, such as the seminaive and logarithmic
algorithms, the termination of our algorithms does not depend on the length of paths
in the underlying ...

Keywords: deductive databases, query processing, transitive closure

92 Probabilistic Datalog—a logic for powerful retrieval methods

Norbert Fuhr
July   SIGIR '95: Proceedings of the 18th annual international ACM SIGIR
1995   conference on Research and development in information retrieval
Publisher: ACM

Full text available: pdf(994.80   Additional Information: full citation, references, cited by, index terms
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Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 33,   Citation Count: 19

93 Parallelizing Datalog programs by generalized pivoting

Jürgen Seib, Georg Lausen
April   PODS '91: Proceedings of the tenth ACM SIGACT-SIGMOD-SIGART
1991   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(952.59   Additional Information: full citation, references, cited by, index terms
KB)

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 11,   Citation Count: 2

94 Graph-theoretic methods in database theory

Mihalis Yannakakis
April   PODS '90: Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART
1990   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(1.61
MB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 157,   Citation Count: 22

95 The logical data model

Gabriel M. Kuper, Moshe Y. Vardi
September   ACM Transactions on Database Systems (TODS),   Volume 18 Issue
1993   3
Publisher: ACM

Full text available: pdf(2.01   Additional Information: full citation, abstract, references, cited by, index
MB)   terms, review

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 123,   Citation Count: 7

We propose an object-oriented data model that generalizes the relational,
hierarchical, and network models. A database scheme in this model is a directed
graph, whose leaves represent data and whose internal nodes represent connections
among the data. ...

Keywords: Algebra, database schema, logic, relational database, tuple calculus

96 LogicBase: a deductive database system prototype

Jiawei Han, Ling Liu, Zhaohui Xie
November   CIKM '94: Proceedings of the third international conference on
1994   Information and knowledge management
Publisher: ACM

Full text available: pdf(912.45   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 19,   Citation Count: 1

A deductive database system prototype, LogicBase, has been developed, with an
emphasis on efficient compilation and query evaluation of application-oriented
recursions in deductive databases. The system identifies different classes of
recursions ...

97 On the expected size of recursive Datalog queries

S. Seshadri, Jeffrey F. Naughton
April   PODS '91: Proceedings of the tenth ACM SIGACT-SIGMOD-SIGART
1991   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(1.05   Additional Information: full citation, references, cited by, index terms
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Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 8,   Citation Count: 1

98 Deductive database languages: problems and solutions

Mengchi Liu
March 1999 ACM Computing Surveys (CSUR),   Volume 31 Issue 1
Publisher: ACM

Full text available: pdf(254.50   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 220,   Citation Count: 8

Deductive databases result from the integration of relational database and logic
programming techniques. However, significant problems remain inherent in this
simple synthesis from the language point of view. In this paper, we discuss these
problems ...

Keywords: complex object databases, deductive databases, inheritance, logic
programming, nested relational databases, object-oriented databases

99 New Strategies for Computing the Transitive Closure of a Database Relation

Hongjun Lu
September   VLDB '87: Proceedings of the 13th International Conference on Very
1987   Large Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 21

100 A correction of the termination conditions of the Henschen-Naqvi technique

David A. Briggs
October   Journal of the ACM (JACM), Volume 37 Issue 4
1990

Publisher: ACM

Full text available: pdf(620.38 KB)   Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation Count: 0

Henschen and Naqvi described a technique for translating queries on recursively defined relations of a Datalog database into iterative programs that invoke a query processor for conventional select-project-join queries of the relational algebra. Although ...

The